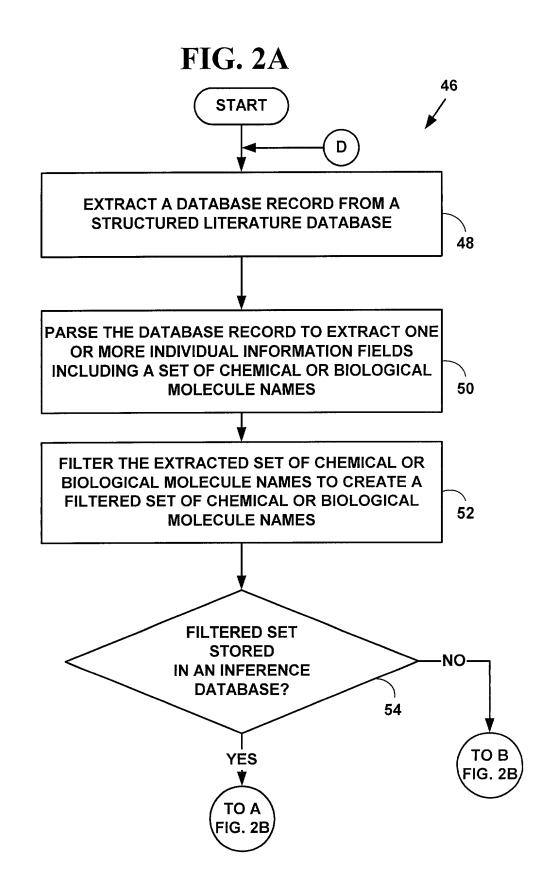
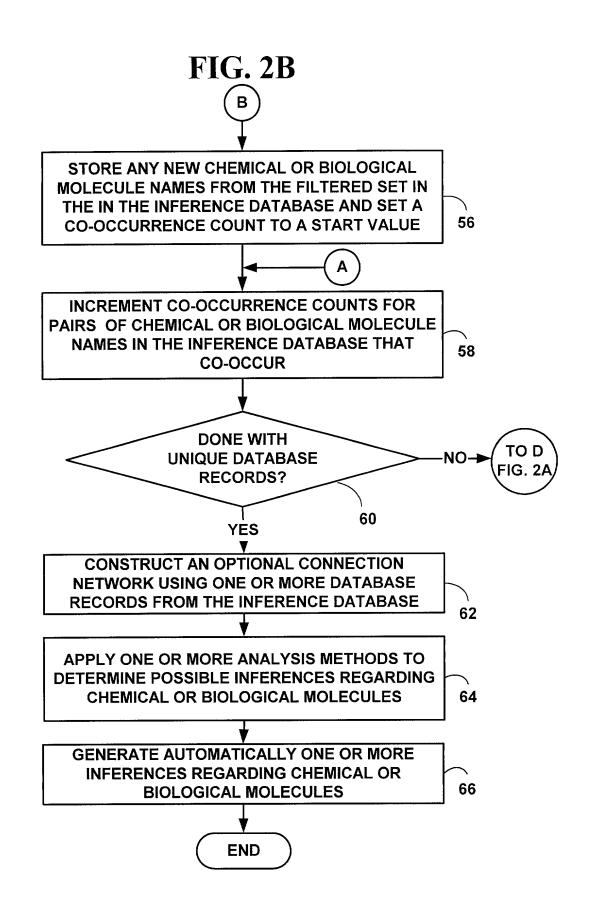
FIG. 1 10 18-20 26 **INFERENCE INTERNAL PROPRIETARY DATABASE** - 24 - 16 22 **PRIVATE NETWORK** (e.g., intranet) 42 12 14 **INTERNAL INTERNAL** PC-1 PC-N **PUBLIC** 28 **DOMAIN** 40 **PUBLIC** \_38 **NETWORK** (e.g., INTERNET) 30 36 32 34 **EXTERNAL EXTERNAL EXTERNAL** ... PC-N PC-1 PC-2 PC-3





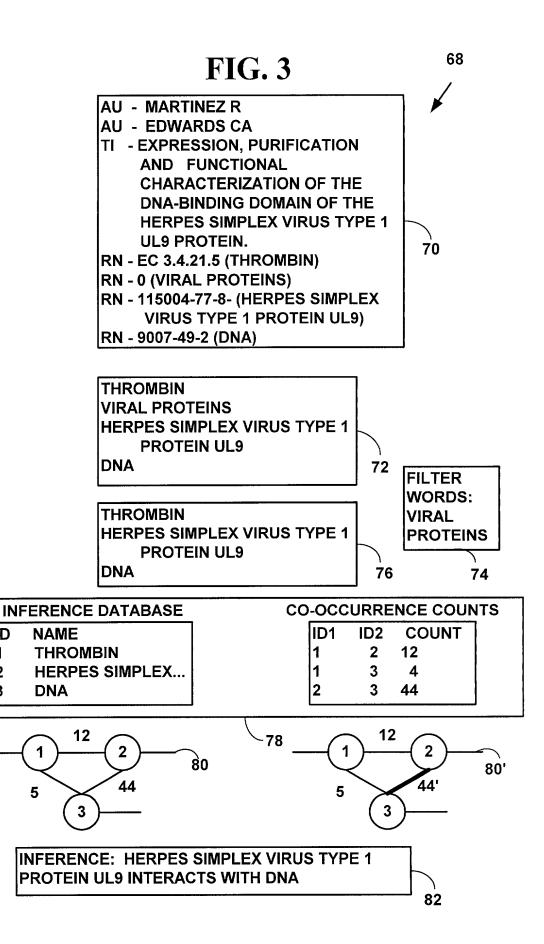
lD

1

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## FIG. 4

**START** 

86

CREATING A CONNECTION NETWORK FROM AN INFERENCE DATABASE, WHERE THE CONNECTION NETWORK INCLUDES TWO OR MORE NODES CONNECTED BY ONE OR MORE ARCS, WHERE THE ONE OR MORE ARCS REPRESENTS CO-OCCURRENCES BETWEEN CHEMICAL OR BIOLOGICAL MOLECULES, WHERE THE INFERENCE DATABASE INCLUDES DATABASE RECORDS WITH ONE OR MORE INFERENCE ASSOCIATIONS

88

APPLY ONE OR MORE ANALYSIS METHODS TO THE CONNECTION NETWORK TO DETERMINE ANY TRIVIAL INFERENCE ASSOCIATIONS

90

DELETE DATABASE RECORDS FROM THE INFERENCE DATABASE DETERMINED TO INCLUDE TRIVIAL INFERENCE ASSOCIATIONS, THEREBY IMPROVING INFERENCE KNOWLEDGE IN THE INFERENCE DATABASE

92

**END**